

WALL ASSEMBLY 13

This configuration includes a wall and foundation. The wall assembly consists of a 2x4 steel stud wall. The floor system is made of 2x10 steel joists supported by an insulated concrete form foundation wall. The exterior wood siding extends over the foundation wall.

WALL LAYERS DESCRIPTION

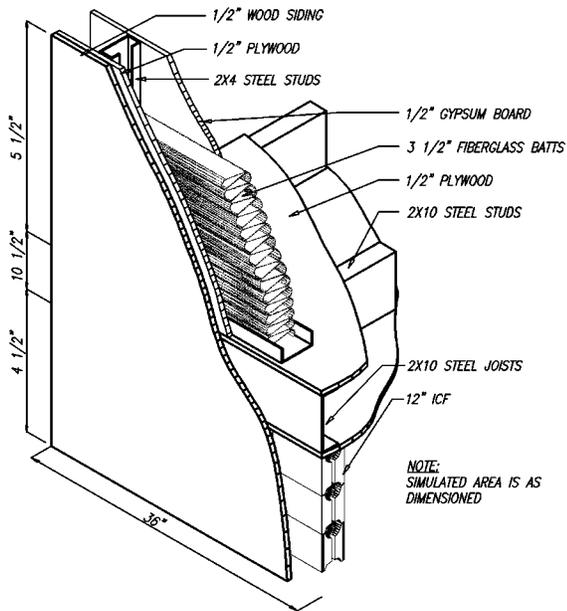
<i>Layer</i>	<i>Total R-Value</i> ft ² -°F-h/Btu
1/2-in. gypsum board	3.796
3.5-in. R-11 fiberglass batts	
2x4 steel studs	
1/2-in. plywood	
1/2-in wood siding	

3-D WALL RESPONSE FACTORS

<i>n</i>	<i>X_n</i> Btu/h ft ² °F	<i>Y_n</i> Btu/h ft ² °F
0	7.0885577E-01	2.8939635E-02
1	-2.5177887E-01	6.6806303E-02
2	-5.4693116E-02	3.1608628E-02
3	-2.4342901E-02	1.7350862E-02
4	-1.5278667E-02	1.2818667E-02
5	-1.1613253E-02	1.0876501E-02
6	-9.6297998E-03	9.6463875E-03
7	-8.3013635E-03	8.6577751E-03
8	-7.2907369E-03	7.7902665E-03
9	-6.4652641E-03	7.0101138E-03
10	-5.7636153E-03	6.3050723E-03
11	-5.1534740E-03	5.6681536E-03
12	-4.6158573E-03	5.0936155E-03
13	-4.1384841E-03	4.5760688E-03
14	-3.7126875E-03	4.1103587E-03
15	-3.3318856E-03	3.6916099E-03
16	-2.9907876E-03	3.3152782E-03
17	-2.6849668E-03	2.9771786E-03
18	-2.4106195E-03	2.6734908E-03
19	-2.1644217E-03	2.4007475E-03
20	-1.9434377E-03	2.1558145E-03
21	-1.7450584E-03	1.9358659E-03

EQUIVALENT WALL THERMOPHYSICAL PROPERTIES

<i>Layer</i>	<i>R_n</i> ft ² -°F- h/Btu	<i>C_n</i> Btu/ft ² - °F	<i>l_n</i> in	<i>k_n</i> Btu- in/h-ft ² - °F	<i>ρ_n</i> lb/ft ³	<i>c_{pn}</i> Btu/lb- °F
1	1.29508	0.41667	0.5	0.38608	40	0.25
2	1.39326	6.40693	3.5	2.51209	87.866	0.25
3	1.10747	0.98569	1	0.90297	47.313	0.25
Total	3.796					



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3-D WALL RESPONSE FACTORS CONT.

<i>n</i>	<i>X_n</i>	<i>Y_n</i>
	Btu/h ft ² °F	Btu/h ft ² °F
22	-1.5669560E-03	1.7383579E-03
23	-1.4070486E-03	1.5610030E-03
24	-1.2634717E-03	1.4017456E-03
25	-1.1345539E-03	1.2587389E-03
26	-1.0187962E-03	1.1303245E-03
27	-9.1485339E-04	1.0150129E-03
28	-8.2151860E-04	9.1146678E-04
29	-7.3770836E-04	8.1848540E-04
30	-6.6245015E-04	7.3499051E-04
31	-5.9487086E-04	6.6001400E-04
32	-5.3418668E-04	5.9268660E-04
33	-4.7969383E-04	5.3222779E-04
34	-4.3076047E-04	4.7793672E-04
35	-3.8681926E-04	4.2918408E-04
36	-3.4736079E-04	3.8540480E-04
37	-3.1192766E-04	3.4609148E-04
38	-2.8010918E-04	3.1078849E-04
39	-2.5153654E-04	2.7908671E-04
40	-2.2587859E-04	2.5061875E-04